

George Anastassiou

George A. Anastassiou (Greek: Γεώργιος Αναστασίου; born 1952) is a Greek mathematician doing research in computational analysis, in particular approximation theory and inequalities.

He was born in Athens, Greece, in 1952. He studied mathematics at the University of Athens, Greece, at the University of Southampton, UK and at the University of Rochester, New York, US, where he received his Ph.D. in 1984. ^[1]

He has taught at the University of Rhode Island, ^[2] Rhode Island, 1984–86 and the University of Memphis, ^[3] Tennessee, since 1986 where he is a tenured full Professor of Mathematics.

Contents

- 1 Research
- 2 Awards and honors
- 3 See also
- 4 References
- 5 External links
-

George Anastassiou



George Anastassiou in Iguazu Falls, Brazil, 2008

Born	November 25, 1952 Athens, Greece
Residence	United States
Fields	Mathematics
Institutions	University of Memphis
Alma mater	University of Rochester (Ph.D.)
Doctoral advisor	J. H. B. Kemperman

Research

Anastassiou has written over 380 research articles, ^[4] ^[5] several monographs, ^[6] he edited also several volumes. He belongs to numerous editorial boards of mathematical journals. ^[7] ^[8] ^[9] ^[10]

George Anastassiou is the founder of several research areas, including: ^[11] ^[12] ^[13] ^[14] ^[15] ^[16]

1. Fractional Differentiation Inequalities ^[17]
2. Fuzzy Positive Operators Approximation ^[18]
3. Fractional Monotone Approximation
4. Quantitative Neural Network Approximation
5. Fractional Calculus on Time Scales ^[19]

He has been one of the most active and main researchers in the following areas:

1. Probabilistic Approximation Theory
2. Monotone Approximation Theory
3. Positive Linear Operators
4. Analytical Inequalities

The International Conference on Applied Mathematics and Approximation Theory (AMAT 2012) was held in 2012 and celebrated Anastassiou's 60th Birthday. [20] [21]

Awards and honors

George A. Anastassiou has received the following notable awards:[22]

- 1) Distinguished Research Award, University of Memphis Alumni Association, 1999 [23]
- 2) Distinguished Research Award, University of Memphis, College of Arts and Sciences, 1999
- 3) Outstanding Young Researcher, University of Memphis, College of Arts and Sciences, 1990
- 4) A. Pallas award 12-27-2001, best paper in Mathematical Analysis during 1998–2000 Academy of Athens, Greece, 2001
- 5) Honorary Doctoral Degree, University of Oradea, Romania, 2007[24]
- 6) Distinguished Research Award, University of Memphis Alumni Association, 2008[25]

See also

- George Anastassiou, *Moments in Probability and Approximation Theory*, Pitman, England 1993, 419 pages.
- Edited with ST Rachev: *Applied Analysis and Stochastics* a special section of "Journal of Computational and Applied Mathematics," Vol. 40, No. 2, June 1992.
- Editor of conference proceedings, published by Marcel-Dekker, Inc., 1992, *Approximation Theory*, Vol. 138, Lecture Notes in Pure and Applied Math.
- During May 20–22, 1993, with S.T. Rachev, UCSB, organized the 1st International Conference on *Approximation, Probability and Related Fields* held in Santa Barbara, CA. The volume of proceedings, edited by G. Anastassiou and S.T. Rachev was published by "Plenum" in 1994.
- Guest Editor in *Computers and Math. with Appl.*, special issue on "Concrete Analysis," Vol. 30, No 3–6, Sept 1995.
- Guest Editor in *Computers and Math. with Appl.*, special issue "Proceedings of #919 Memphis AMS Approximation Meeting," 1997; Vol. 40, No. 1, July 2000; "Approximation in Mathematics".
- George Anastassiou, S. Gal, *Approximation Theory: Moduli Continuity and Global Smoothness Preservation*, Birkhauser-Boston, 2000, pp. 525.
- George Anastassiou, *Quantitative Approximations*, CRC Press 2000, 617 pages.
- George Anastassiou, *Handbook of Analytic Computational methods in Applied Math.*, CRC press, 2000, 1034 pages.
- George Anastassiou, *Applied Math Rev.*, Vol. 1, World Scientific Publishing Co. 2000, 611 pages.
- George Anastassiou, *Guest Editor in journal of "Computers and Mathematics with Appl."*, special

issue on "Computational Methods in Analysis, Vol.48, No.9, November 2004.

- George Anastassiou, *Fractional Differentiation Inequalities*, Published By Springer, New York, Heidelberg, 2009, 693 pages.
- George Anastassiou, *Probabilistic Inequalities*, 430 Pages, World Scientific Publishing Corporation, 2010.
- George Anastassiou, *Fuzzy Mathematics: Approximation Theory*, Springer, NY, Heidelberg, 2010, 455 pages.
- George Anastassiou, *Advanced Inequalities*, World Scientific Publishing Corporation, Singapore, New York, 2010, 418 pages.
- George Anastassiou, *Intelligent Mathematics: Computational Analysis*, Springer, Heidelberg, New York, 2011, 819 pages.
- Free Public Access to all Anastassiou's Eudoxus Press Journals (JoCAAA-JCAAM-JAFA) (<https://sites.google.com/site/georgeanastassioumemphis/home>).
- An alternative website with free access to all the previous Eudoxus Press Journals can be found here: [26] [27]

References

1. ^ "Mathematics Genealogy Project" (<http://genealogy.math.ndsu.nodak.edu/id.php?id=11604>). Retrieved 2014-04-12.
2. ^ G. A. Anastassiou and O. Shisha, Monotone approximation with linear differential operators, 3. Approx. Theory 44 (1985), 391-393.
3. ^ "show" (<http://whitepages.memphis.edu/search/show?uid=ganastss>). Whitepages.memphis.edu. Retrieved 2013-09-05.
4. ^ <http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=25680>
5. ^ "Microsoft Academic Search" (<http://65.54.113.26/Author/12597319/george-a-anastassiou>). Retrieved 2014-04-12.
6. ^ http://www.ams.org/mathscinet/search/publications.html?pg4=AUCN&s4=anastassiou&co4=AND&pg5=TI&s5=&co5=AND&pg6=PC&s6=&co6=AND&pg7=ALLF&s7=&co7=AND&Submit=Search&dr=all&yrop=eq&arg3=&yearRangeFirst=&yearRangeSecond=&pg8=ET&s8=Books&review_format=html
7. ^ "Journal of Computational Analysis and Applications (Editorial Board)" (<http://www.springer.com/mathematics/computational+science+%26+engineering/journal/10819?detailsPage=editorialBoard>). Retrieved 2014-04-12.
8. ^ "Update Newsletter :: Names in the News :: University of Memphis" (<http://www.memphis.edu/update/dec10/namesinthenews.php>). Memphis.edu. Retrieved 2013-09-05.
9. ^ "Update Newsletter :: Names in the news :: University of Memphis" (<http://www.memphis.edu/update/sep10/namesinthenews.php>). Memphis.edu. Retrieved 2013-09-05.
10. ^ "Intellectuals Society for Socio-Techno Welfare" (<http://www.isst.org.in/index.php?ijmcs>). Retrieved 2014-04-12.
11. ^ "Univariate Hyperbolic Tangent Neural Network Quantitative Approximation" (http://link.springer.com/chapter/10.1007%2F978-3-642-21431-8_2). Retrieved 2014-04-12.
12. ^ "Multivariate Hyperbolic Tangent Neural Network Quantitative Approximation" (http://link.springer.com/chapter/10.1007%2F978-3-642-21431-8_4). Retrieved 2014-04-12.
13. ^ "Multivariate Sigmoidal Neural Network Quantitative Approximation" (http://link.springer.com/chapter/10.1007%2F978-3-642-21431-8_3). Retrieved 2014-04-12.

14. ^ "Google Books" (http://books.google.com/books?id=RW1Wy2jbJTAC&pg=PP7&lpg=PP7&dq=%22QUANTITATIVE+NEURAL+NETWORK+APPROXIMATION%22&source=bl&ots=P46WPE18L6&sig=_AJh-DSCgfK7PuWLUKItLtSLIE&hl=en&sa=X&ei=wNtJU9_VMuyF0QGvs4DQCg&ved=0CDcQ6AEwAw#v=onepage&q=%22QUANTITATIVE%20NEURAL%20NETWORK%20APPROXIMATION%22&f=false). Retrieved 2014-04-12.
15. ^ "Fractional Differentiation Inequalities" (<http://link.springer.com/book/10.1007%2F978-0-387-98128-4>). Retrieved 2014-04-12.
16. ^ "ACM Digital Library: Fractional Differentiation Inequalities" (<http://dl.acm.org/citation.cfm?id=1594913>). Retrieved 2014-04-12.
17. ^ "Fractional Differentiation Inequalities" (<http://www.springer.com/mathematics/dynamical+systems/book/978-0-387-98127-7>). Springer.com. Retrieved 2013-09-05.
18. ^ "Statistical fuzzy approximation by fuzzy positive linear operators" (<http://portal.acm.org/citation.cfm?id=1327836>). Portal.acm.org. doi:10.1016/j.camwa.2007.05.007 (<http://dx.doi.org/10.1016%2Fj.camwa.2007.05.007>). Retrieved 2013-09-05.
19. ^ "Intelligent Mathematics: Computational Analysis" (<http://www.springer.com/engineering/mathematical/book/978-3-642-17097-3>). Springer.com. Retrieved 2013-09-05.
20. ^ "AMAT 2012 conference" (<http://amat2015.etu.edu.tr/amat2012/index.htm>). Retrieved 2014-04-23.
21. ^ "European Mathematical Society" (<http://www.euro-math-soc.eu/node/2617>). Retrieved 2014-04-23.
22. ^ "College of Arts and Sciences :: Alumni Association Distinguished Research, Excellence in Engaged Scholarship and Creative Achievement Awards :: University of Memphis" (<http://cas2.memphis.edu/accolades/2008/aadrca.htm>). Cas2.memphis.edu. 2008-08-19. Retrieved 2013-09-05.
23. ^ "Journal of Applied Functional Analysis" (<http://www.eudoxuspress.com/jafa.html>). Retrieved 2014-04-12.
24. ^ "content" (<http://www.eudoxuspress.com/Frame-4-jafapage4.html?refresh=1267830881649>). Eudoxuspress.com. Retrieved 2013-09-05.
25. ^ "Provost :: Award Winners for Faculty Convocation 2008 :: University of Memphis" (<http://www.memphis.edu/provost/bios/anastassiou.php>). Memphis.edu. Retrieved 2013-09-05.
26. ^ "EUDOXUS PRESS JOURNALS 2004-2013" (<https://archive.org/details/EudoxusPressJournals2004-2013>). Retrieved 2014-04-12.
27. ^ "EUDOXUS PRESS JOURNALS 2014" (<https://archive.org/details/Eudoxuspressjournals2014>). Retrieved 2014-04-13.

External links

- George Anastassiou (<http://www.genealogy.ams.org/id.php?id=11604>) at the Mathematics Genealogy Project
- George A. Anastassiou resume (<https://umdrive.memphis.edu/ganastss/public/cv/ANASTASSIOU-UM-STYLE-TOTAL-CURRICULUM%20VITAE-1-23-2014.pdf>)
- Journal of Computational Analysis and Applications (<http://www.msci.memphis.edu/~ganastss/jocaaa>)
- Journal of Concrete and Applicable Mathematics (<http://www.msci.memphis.edu/~ganastss/jcaam>)
- Journal of Applied Functional Analysis (<http://www.msci.memphis.edu/~ganastss/jafa>)
- List of publications as listed by AMS/MATH Reviews (<https://umdrive.memphis.edu/ganastss/public/cv/AMS-LIST%20OF%20PUBLICATIONS%20OF%20GEORGE%20ANASTASSIOU-4-21-2014.pdf>)
- List of Books as listed by AMS/MATH Reviews (<https://umdrive.memphis.edu/ganastss/public/cv/BOOKS-AMS-LIST%20OF%20PUBLICATIONS%20OF%20GEORGE%20ANASTASSIOU-4-21-2014.pdf>)
- Author's search on Springer (http://www.springer.com/?SGWID=0-102-24-0-0&searchType=EASY_CDA&queryText=george+anastassiou&x=0&y=0)
- Author's search on Google Books (<https://www.google.com/search?tbs=bks:1&q=%22George+Anastassiou%22>)
- Author's search on Google Scholars (<http://scholar.google.com/scholar?q=%22George+Anastassiou%22>)



George A Anastassiou (ganastss)< ganastss@gmail.com>

Your eBook download figures: Fractional Differentiation Inequalities

3 messages

Springer < SpringerAlerts@springeronline.com>

Mon, Jun 17, 2013 at 8:19 AM

Reply-To: "onlineservice@springer.com" <onlineservice@springer.com>

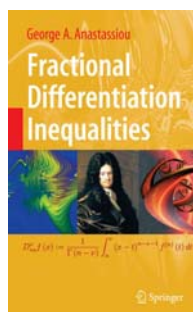
To: "ganastss@memphis.edu" <ganastss@memphis.edu>



eBook download figures and more

[Visit us atspringer.com](http://atspringer.com)

Dear Dr. George A. Anastassiou,



Since its online publication on Jun 04, 2009, there has been a total of **4646** chapter downloads for your book on SpringerLink, our online platform. Over the last year(s) the download figures have been as follows:

Year	Chapter Downloads
2012	1010
2011	932
2010	1264

This means your book was one of the top 50% most downloaded eBooks in the relevant Springer eBook Collection in 2012.

As you can see, in addition to the print book, the electronic version reaches a broad readership and provides increased visibility for your work. This is especially noticeable in the long run: statistical data shows that the usage of electronic publications remains stable for years after publication, so this is what you can expect for your book for the years to come.

To present your book 'Fractional Differentiation Inequalities' to its potential readers and make it findable by search engines, your book has its own [homepage](#), which can be shared through social media and where you can download a flyer for your book!

In 2012 this page was visited 130 times. Springer is constantly working to improve the



George A Anastassiou (ganastss)< ganastss@gmail.com>

Your eBook download figures: Fuzzy Mathematics: Approximation Theory

3 messages

Springer < SpringerAlerts@springeronline.com>

Mon, Jun 17, 2013 at 8:17 AM

Reply-To: "onlineservice@springer.com" <onlineservice@springer.com>

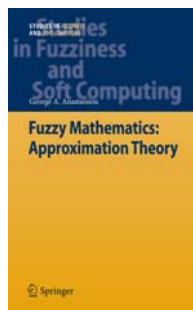
To: "ganastss@memphis.edu" <ganastss@memphis.edu>



eBook download figures and more

Visit us atspringer.com

Dear Dr. George A. Anastassiou,



Since its online publication on Feb 04, 2010, there has been a total of **3764** chapter downloads for your book on SpringerLink, our online platform. Over the last year(s) the download figures have been as follows:

Year	Chapter Downloads
2012	977
2011	1115
2010	1672

This means your book was one of the top 50% most downloaded eBooks in the relevant Springer eBook Collection in 2012.

As you can see, in addition to the print book, the electronic version reaches a broad readership and provides increased visibility for your work. This is especially noticeable in the long run: statistical data shows that the usage of electronic publications remains stable for years after publication, so this is what you can expect for your book for the years to come.

To present your book 'Fuzzy Mathematics: Approximation Theory' to its potential readers and make it findable by search engines, your book has its own [homepage](#), which can be shared through social media and where you can download a flyer for your book!

In 2012 this page was visited 335 times. Springer is constantly working to improve the



George A Anastassiou (ganastss)< ganastss@gmail.com>

Your eBook download figures: Intelligent Mathematics: Computational Analysis

3 messages

Springer < SpringerAlerts@springeronline.com>

Mon, Jun 24, 2013 at 6:00 AM

Reply-To: "onlineservice@springer.com" <onlineservice@springer.com>

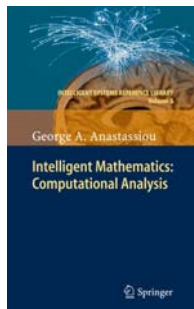
To: "ganastss@memphis.edu" <ganastss@memphis.edu>



eBook download figures and more

[Visit us atspringer.com](http://atspringer.com)

Dear Dr. George A. Anastassiou,



Since its online publication on Dec 15, 2010, there has been a total of **2788** chapter downloads for your book on SpringerLink, our online platform. Over the last year(s) the download figures have been as follows:

Year	Chapter Downloads
2012	1656
2011	1132

This means your book was one of the top 25% most downloaded eBooks in the relevant Springer eBook Collection in 2012.

As you can see, in addition to the print book, the electronic version reaches a broad readership and provides increased visibility for your work. This is especially noticeable in the long run: statistical data shows that the usage of electronic publications remains stable for years after publication, so this is what you can expect for your book for the years to come.

To present your book 'Intelligent Mathematics: Computational Analysis' to its potential readers and make it findable by search engines, your book has its own [homepage](#), which can be shared through social media and where you can download a flyer for your book! Springer is constantly working to improve the search engine optimization for this page to ensure that your book appears as high as possible on the search engines' results lists.